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Louisville, KY 502.961.0001 Paducah, KY 270.444.6547

"Providing Tomorrow's Analytical Capabilites Today"

# Certificate of Analysis 5101822

Mark Peacock
Duke Energy - Edwardsport IGCC
15424 State Road 358
Edwardsport IN, 47528

Customer ID: Report Printed:

DU2303 10/12/2015 14:04

Project Name: Grey Water Process Control

Workorder: 5101822

Dear Mark Peacock

Enclosed are the analytical results for samples received at one of our laboratories on 10/06/2015 14:10.

McCoy & McCoy Laboratories, Inc. and Environmental Certification Labs are commercial laboratories accredited by various state and national authorities, including Indiana, Kentucky, Tennessee, and Virginia's National Environmental Laboratory Accreditation Program (NELAP). With the NELAP accreditation, applicable test results are certified to meet the requirements of the National Environmental Laboratory Accreditation Program.

If you have any questions concerning this report please contact the individual listed below.

Please visit our websites at www.mccoylabs.com or www.eclabs.org for a listing of the NELAP accreditations and Scope of Work, as well as, links to other scientific organizations.

This certificate of analysis may not be reproduced without the written consent of McCoy & McCoy



#460210 Madisonville

Day Wife

This page is included as part of the Analytical Report and must be retained as a permanent record thereof. Doug Wolfe For Syd Tate, Data Reviewer



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# **SAMPLE SUMMARY**

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
5101822-01	Filtered Water/20151006-032	Wastewater	10/06/2015 09:45	10/06/2015 14:10	Diana Reedy
5101822-02	Greywater Influent/20151006-033	Wastewater	10/06/2015 09:55	10/06/2015 14:10	Diana Reedy
5101822-03	Greywater In Process/20151006-034	Wastewater	10/06/2015 09:50	10/06/2015 14:10	Diana Reedy

# **ANALYTICAL RESULTS**

Lab Sample ID: 5101822-01

Description: Filtered Water 20151006-032

Sample Collection Date Time: 10/06/2015 09:45 Sample Received Date Time: 10/06/2015 14:10

# **Conventional Chemistry Analyses Farmersburg**

Analyte	Result Flag	Units	MRL	MDL Method	Prepared	Analyzed	Analyst
Total Dissolved Solids	340	mg/L	10.0	10.0 2540 C-1997	10/08/2015 15:01	10/09/2015 13:30	dsb

# **ANALYTICAL RESULTS**

Lab Sample ID: 5101822-02

Description: Greywater Influent 20151006-033

Sample Collection Date Time: 10/06/2015 09:55 Sample Received Date Time: 10/06/2015 14:10

#### **Conventional Chemistry Analyses Farmersburg**

Analyte	Result Flag	Units	MRL	MDL Method	Prepared	Analyzed	Analyst
Total Dissolved Solids	2680	mg/L	10.0	10.0 2540 C-1997	10/08/2015 15:01	10/09/2015 13:30	dsb

# **ANALYTICAL RESULTS**

Lab Sample ID: 5101822-03

Description: Greywater In Process 20151006-034

Sample Collection Date Time: 10/06/2015 09:50 Sample Received Date Time: 10/06/2015 14:10

### **Conventional Chemistry Analyses Farmersburg**

Analyte	Result Flag	Units	MRL	MDL Method	Prepared	Analyzed	Analyst
Total Dissolved Solids	20.0	mg/L	10.0	10.0 2540 C-1997	10/08/2015 15:01	10/09/2015 13:30	dsb



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#### Notes for work order 5101822

- Samples collected by MMLI personnel are done so in accordance with procedures set forth in MMLI field services SOPs.
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra.

# Standard Quallifiers/Acronymns

MDL Method Detection Limit
MRL Minimum Reporting Limit

ND Not Detected

LCS Laboratory Control Sample

MS Matrix Spike

MSD Matrix Spike Duplicate
DUP Sample Duplicate
% Rec Percent Recovery

RPD Relative Percent Difference

> Greater than
< Less than

	Sample Acceptance Checklist for Work Order 5101822			
Shipped By: MMLI	Temperature: 6.00° Celcius			
Condition				
Custody seals present/intact?				
Were any containers received damaged?				
COC submitted and complete?	☑			
COC agree with sample labels?				
All containers listed on COC received?	lacksquare			
Were all samples in appropriate containers?				
Did all samples have appropriate volumes?	lacksquare			
Were collection methods recorded on COC?				
Were flow units recorded on COC?				
Any headspace issues with volatile samples?				
Were all holding times acceptable?				
Were preserved samples within acceptable pH range?				
Were preserved samples within acceptable Cl2 range				





# McCoy & McCoy Laboratories, Inc.

NELAC Accredited - Woman-Owned

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11422 N US Hwy 41	Farmersburg, IN 47850	812-696-5076

							(	CHAIN OF	CUSTODY		Pag	e 1 of	
	IGCC MAIL DE			MAIL DRO 1000 E.	ERGY FOUNDROSPORT IGCC ROF WPG41 MAINST.		Customer PO#		(check one)				
Project Name  GREY WATER PROCESS CONTROL  Collection				Sample Collector (Signature) Diana Reedy			Sample receipt information is electronically recorded	Compliance cample	(check one)				
No.	Date	Time	Matrix	Preservative	# of Bottles	Grab Composite		Sample Des	scription	Analysis	Requested	Sample No. MMLI Use Only	
1		pH	CI_	Temp_		or F	201511 FILTERE	DWATER		TDS fub		-01	
2	10-6-15	0955 pH	CI	Temp_	C_0	or F	<b></b> -	106-033 TER INFL	YENT	TOS FAD		-02	
3	10-6-15	0950 pH	CI	Temp_	C c	or F	_	06 034 CRIN PR	9(£3)	TOS FMb		-03	
4		pH	CI	Temp	C @	or F							
5		pH	CI	Temp	C d	or F							
Com	ments:												
	quished By:		/					Date	Time		Code Chart		
Received By: Ident Aline						Date 10-6-13	1020 Time 11:08	Matrix  DW - Drinking Water  SW - Solid Waste  SO - Soil/Solid	Preservation NI - Nitric Acid (HNO3) HA - Hydrochloric Acid (H SH - Sodium Hydroxide (N	CL)			
Relinquished By:						10-6-15	Time 4,10	OL - Oil SL - Sludge GW - Groundwater	ST - Sodium Thiosulfate ZN - Zinc Acetate SA - Sulfuric Acid (H2SO4				
Received By:						Date 10-6-15	Time 4. 10	WW - Wastewater SU - Surface water	AA - Absorbic Acid 4C - 4 degree Celcius	" {			
Relinquished By:								Date	Time	Expedited TAT not available	- ·		
Received By:								Date	Time		RUSH fees may apply if samples received with <48 hr hold time remainir  MMLI reserves the right to return unused sample.  Page		